

Slinkard Valley Groundwater Basin

- Groundwater Basin Number: 6-105
- County: Mono
- Surface Area: 4,500 acres (7 square miles)

Basin Boundaries and Hydrology

Slinkard Valley is located at the eastern base of the Sierra Nevada, in northern Mono County. It lies about two miles to the west of Antelope Valley and is separated from it by a faulted ridge of bedrock. A complex fault, along which this valley has been depressed, lies at the western margin of the valley. Slinkard Valley lies generally in a north-south direction. Slinkard Creek flows along the eastern side of the valley and is the confluence of many streams draining the eastern slopes of the Sierra Nevada. Elevation ranges from approximately 6,200 feet in the valley to 7,000 feet at the western margins of the basin.

Average annual precipitation in the basin ranges from 20 inches in the northeast to 32 inches in the south.

Hydrogeologic Information

Water Bearing Formations

The primary water-bearing formations are recent valley sediments (DWR, 1964).

Recent Valley Sedimentary Deposits. The alluvial fill of this valley consists almost entirely of steep alluvial fan deposits. Locally these sediments have been eroded by Slinkard Creek and backfilled with a ribbon of fine-grained deposits. However, the deposits of Slinkard Creek account for a very small portion of the bulk of the valley fill.

Due to lack of borehole data, descriptions of underlying material are not available.

Groundwater Level Trends

No published data was found for the Slinkard Valley Basin.

Groundwater Storage

The groundwater storage capacity between depths of 10 and 100 feet is estimated to be about 72,000 acre-feet. (DWR, 1964).

Groundwater Budget (Type C)

Due to lack of groundwater budget data, inflows, including natural, applied, and artificial recharge and outflows including urban and agricultural extraction have not been included.

Groundwater Quality

Characterization. Excellent quality groundwater of slightly to moderately hard calcium-bicarbonate nature were observed in Slinkard Valley (DWR, 1964).

Impairments. No published information was found for Slinkard Valley Basin.

Well Characteristics

Well yields (gal/min)		
Municipal/Irrigation	Range:	Average: Unknown
Total depths (ft)		
Domestic	Range:	Average: Unknown
Municipal/Irrigation	Range:	Average: Unknown

Active Monitoring Data

Agency	Parameter	Number of wells /measurement frequency
Department of Health Services and cooperators	Groundwater levels	No wells monitored at this time
	Miscellaneous water quality	No wells monitored at this time
	Title 22 water quality	No wells monitored at this time

Basin Management

Groundwater management:	None identified
Water agencies	
Public	Bridgeport Public Works
Private	

References Cited

- Jennings, O.P. and Koenig, J.B., 1963, Geologic map of California: California Division of Mines and Geology, Geologic Map Series Walker Lake Sheet, scale 1:250,000.
- California Department of Water Resources, 1991, Walker River Atlas: Sacramento, Calif.
- California Department of Water Resources, 1964, Bulletin 64, West Walker River Investigation: Sacramento, Calif.